<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 383-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Form C-101 August 1, 2011



	ne and Address ON ENERGY PR	ODLICTION C	MPANY I	ρ					2. OGRID Number 6137		
	W. Sheridan Ave		7MF 7041, L					 	3. API Number		
	homa City, OK 7				,			1-	30-015-42	377	
Property Cod			5. Property	Name				E	. Well No.		
313246 Rosce 16					te SWD				001		
					7. Su	rface Location					
- Lot	Section	Township	Ra	inge	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
L	16	2:	3S	26E		1665	S	600	W	Edd	
					8. Proposed	Bottom Hole Locat	on				
- Loi	Section	Township		пде	Lot Idn	Feet From	N/S Line.	Feet From	E/W Line	County	
L	16	23	38	26E	L L	1665	S	600	0 · W	Edo	
					9. Po	ol Information					
ND;CANYO	N-MOR-DEV-ELL	.EN		,					96189		
· · · · · · · · · · · · · · · · · · ·					Addition	al Well Information					
. Work Type		12. Well T			13. Cable/Rotary		. Lease Type	15 0	and Level Elevation		
	Well		ND		13. Cable/Rolary	14	State		3371		
Multiple		17. Propos			18. Formation 19. Contractor			20. Sput			
N			15103		Simpson				6/8/2014		
pth to Groun	d water		•		Distance from nearest fresh water well Dista			Distance	to nearest surface wa	ter	
									·		
Ve will be u	sing a closed-lo	op system in li	eu of lined	pits							
						sing and Cement P	rogram				
Туре	Hole Size		g Size	С С	asing Weight/ft	Setting		Sads of Cer	ment	Estimated TOC	
Surf	26		20		94	18		470		- 0	
Int1	17.5		375	68		147		,910		0	
Int2	12.25		525	ļ	47	880		1800		970	
Prod	8.5		7		29	124		550		8300	
Prod	5.875		0		0	151	03	0		0	
							omments				

caliper log data. • If lost severe circulation is en	ncountered while drilling the intermediate wellbore to be moved, the cement volumes will be adjusted	a DV tool will be installed a minimum of 50°	
	22. Proposed Blowout Pre-	ention Program	-
Туре	Working Pressure	Test Pressure	Manufacturer
Annular	2000	2000	
Double Pam	5000	5000	

knowledge and	belief. I have complied with 19.1	n above is true and complete to the best of my 5.14.9 (A) NMAC 🔀 and/or 19.15.14.9 (B) NMAC		OIL CONSER	VATION DIVISION
Printed Name:	Electronically filed by I	Randy Bolles	Approved By:	Randy Dade	,
Title:	Manager, Regulatory	Affairs	Title:	District Supervisor	:
Email Address:	randy.bolles@dvn.cor	1	Approved Date:	5/15/2014 .	Expiration Date: 5/15/2016
Date.	5/8/2014	Phone: 405-228-8588	Conditions of Ap	proval Attached	

District 1 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico RECEIVED

Energy, Minerals & Natural Resources Department 2014 1220 South St. Francis Dr. NMOCD ARTESIAN Santa Fe Nixon OIL CONSERVATION DIVISION

Santa Fe, NM 87505

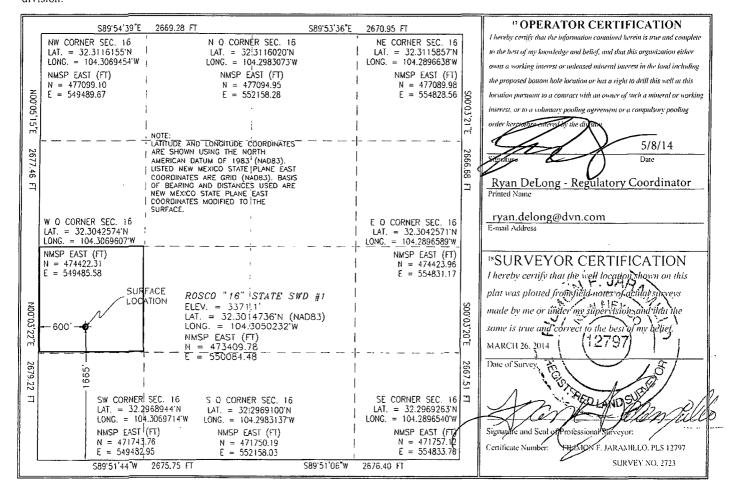
Form C-102 Revised August 1, 2011 hit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-01	API Number	2377		² Pool Code 96189		. SWD: CANYON-MOR-DEV-ELLEN				
Property	Code,			⁶ Well Number						
3137	46		ROSCO 16 STATE SWD							
OGRID	No.				8 Operator	Name			⁹ Elevation	
6137			DEV	ON ENEF	RGY PRODUC	CTION COMPA	NY, L.P.		3371.1	
					¹⁰ Surface	Location		•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
L	16	23 S	26 E		1665	SOUTH	600	WEST	EDDY	
			'' Bo	ttom Ho	le Location It	f Different From	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	s 13 Joint o	r Infill 14 Co	onsolidation :	Code 13 Or	der No.	1				
_40AC N	/A									

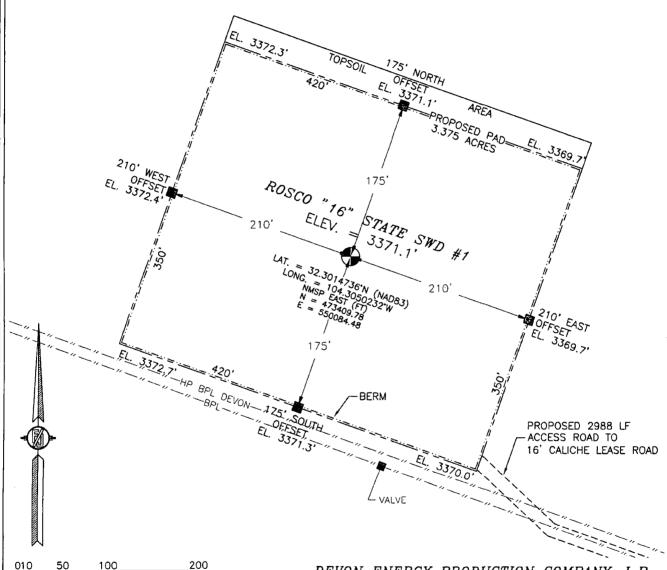
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83), LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83), BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE



DIRECTIONS TO LOCATION
ABOUT 200' NORTH OF MILE MARKER 27 ON SOUTH BOUND LANE OF
US HIGHWAY 62-180 (NATIONAL PARKS HIGHWAY) TURN RIGHT ON
CALICHE LEASE ROAD, GO WEST ABOUT 1.45 MILES TO ROAD
INTERSECTION, TURN LEFT GO SOUTH 0.50 MILES TO EXISTING PAD.
GO TO EXISTING BPL ROAD SOUTH 0.50 TO THE TRENT OF THE TOP ON NORTHWEST 0.49 MILES TO SOUTHEAST CORNER OF PROPOSED PAD.

= 100

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

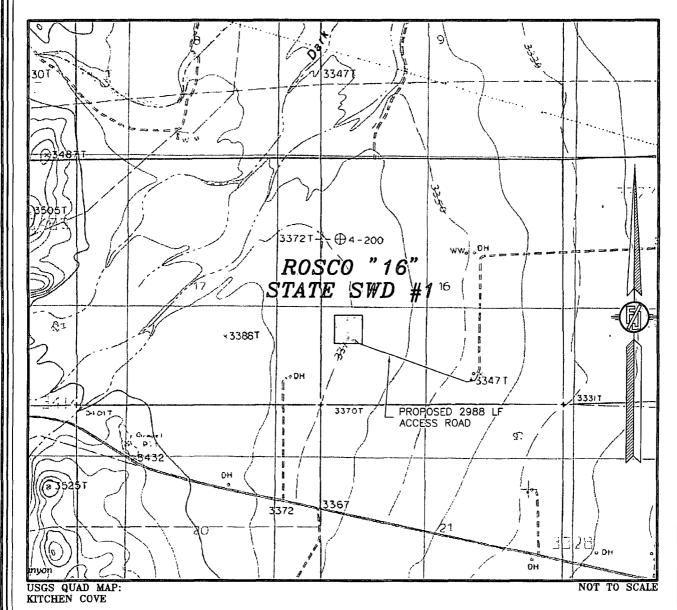
LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

MADRON_SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

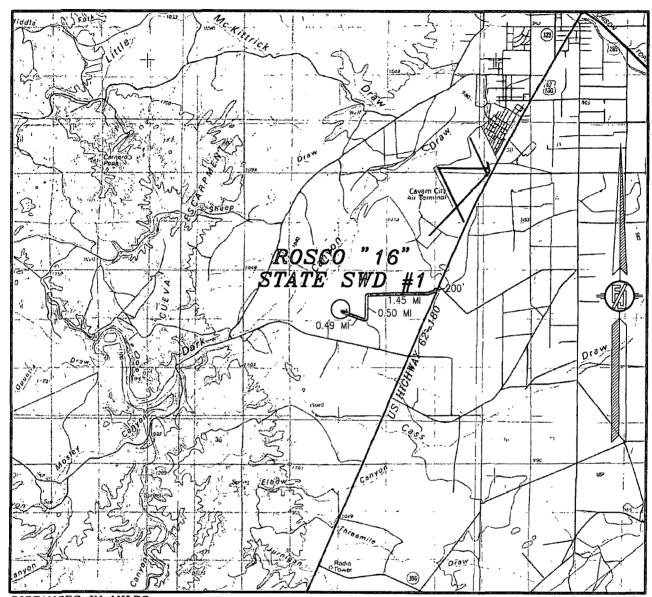
LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

DIRECTIONS TO LOCATION
ABOUT 200' NORTH OF MILE MARKER 27 ON SOUTH BOUND LANE OF
US HIGHWAY 62-180 (NATIONAL PARKS HIGHWAY) TURN RIGHT ON
CALICHE LEASE ROAD, GO WEST ABOUT 1.45 MILES TO ROAD
INTERSECTION, TURN LEFT GO SOUTH 0.50 MILES TO EXISTING PAD.
GO TO EXISTING BPL ROAD SOUTH OF PAD TURN RIGHT GO
NORTHWEST 0.49 MILES TO SOUTHEAST CORNER OF PROPOSED PAD.

DIRECTIONS TO LOCATION

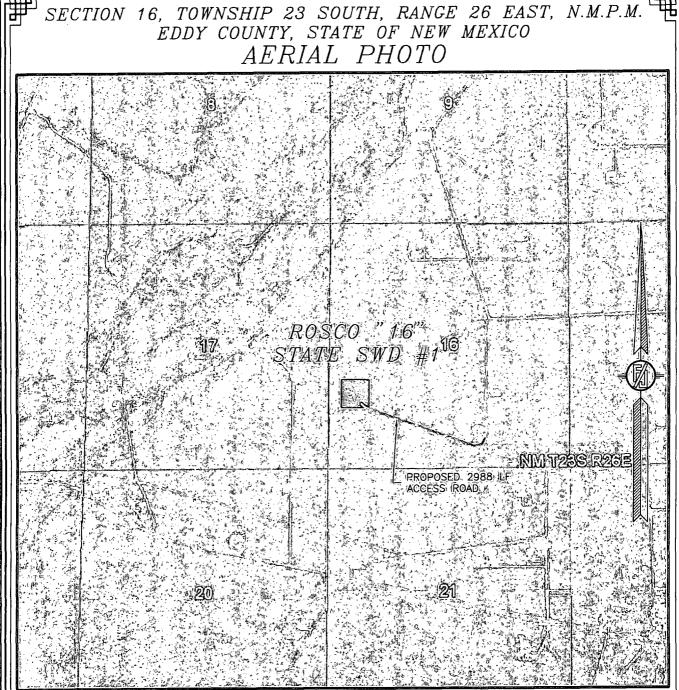
DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1 LOCATED 1665 FT. FROM THE SOUTH LINE AND 600 FT. FROM THE WEST LINE OF SECTION 16, TOWNSHIP 23 SOUTH,

RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

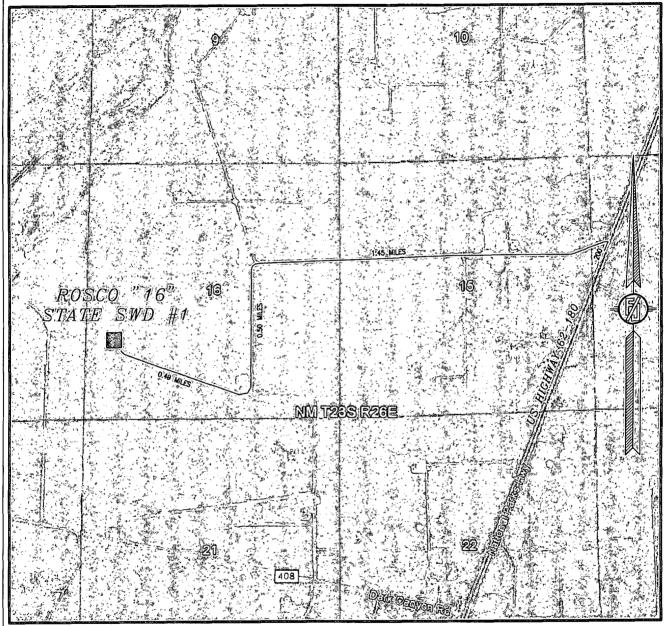
LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

MADRON SURVEYING, INC. 301 SOUTH CARLSBAD, NEW MEXICO

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 26 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO ACCESS AERIAL ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

ROSCO "16" STATE SWD #1

LOCATED 1665 FT. FROM THE SOUTH LINE
AND 600 FT. FROM THE WEST LINE OF
SECTION 16, TOWNSHIP 23 SOUTH,
RANGE 26 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

MARCH 26, 2014

SURVEY NO. 2723

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

ROSCO 16 STATE SWD 1-APD DRILLING PLAN

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
26"	0 – 180	20"	0 – 180	94#	BTC	J-55
17-1/2"	180 –1470	13-3/8"	0 – 1470	68#	STC	J/K-55
12-1/4"	1470 – 8800	9-5/8"	0 - 8800	47#	LTC	HCP-110
8-1/2"	8800 - 12403	7"	0 - 12403	29#	BTC	HCP-110
5-7/8"	12403' – 15103'		Open h	ole completion	1	

Note: This will be an open hole completion, thus the hole interval is deeper than the 7" production casing depth

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
20", 94#, J-55, BT&C	5.79	23.48	82.86
13-3/8", 68#, J/K-55, BT&C	2.55	4.51	11.40
9-5/8", 47#, HCP-110, LT&C	1.63	2.17	2.93
7", 29#, HCP-110, BT&C	1.19	1.45	2.58

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing strings to be used as the injection string.

Mud Program:

<u>Depth</u>	Mud Wt.	Visc.	Fluid Loss	Type System
0 - 180	8.4 - 8.8	30 – 34	N/C	FW
180 - 1470	10	28 - 32	N/C	Brine
1470 - 8800	8.8 - 9.5	28 - 30	N/C	FW
8800- 12403	10 - 12	28 – 30	N/C	FW
12403-15103	8.4 - 8.8	28 - 30	N/C	FW

Pressure Control Equipment:

The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as a 2M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoe.

A 5M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the first and second intermediate hole sections. The BOP system will be tested as a 5M system per BLM Onshore Oil and Gas Order 2 prior to drilling out the casing shoes.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); if an H&P rig drills this well. Otherwise no flex line is needed. The line will be kept as straight as possible with minimal turns.

String	Number of sx	Weight Ibs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description	
20" Surface Casing	470	14.8	6.34	1.34	Tail	Class C Cement + 1% Calcium Chloride + 64.2% Fresh Water	
13-3/8" 1 st Intermediate	620	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake + 70.9 % Fresh Water	
Casing	490	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water	
9-5/8" 2 nd	1400	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water	
Intermediate Casing	400	14.4	5.75	1.24	Tail	50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% Fresh Water	
	790	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water	
9-5/8" 2 nd	210	14.4	5.75	1.24	Tail	50% Premium H / 50% PozMix + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 64.7% Fresh Water	
Intermediate Casing Two- Stage Option	DV Tool at 4500ft						
	610	11.9	12.89	2.26	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water	
	180	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water	
7" Production Casing	550	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water	

TOC for all Strings:

20" Surface Casing	Oft
13-3/8" 1st Intermediate Casing	0ft
9-5/8" 2 nd Intermediate Casing	970ft
7" Production Casing	8300ft

Notes:

- Cement volumes Surface 100%, Intermediate #1 75%, Intermediate #2 50% and Production based on at least 25% excess.
- Actual cement volumes will be adjusted based on fluid caliper and/or caliper log data.
- If lost severe circulation is encountered while drilling the intermediate wellbore, a DV tool will be installed a minimum of 50'

below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

Permit Conditions of Approval

API: 30-015-42377

OCD Reviewer	Condition
CSHAPARD	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string